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1 Triage: diagnosing production run failures at the user's site

Joseph Tucek, Shan Lu, Chengdu Huang, Spiros Xanthos, Yuanyuan Zhou
October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles
Publisher: ACM
Full text available: pdf(292.47 KB) Additional Information: full citation, abstract, references, index terms

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Diagnosing production run failures is a challenging yet importanttask. Most previous work focuses on offsite diagnosis, i.e.development site diagnosis with the programmers present. This is insufficient for production-run failures as: (1) it is difficult ...

Keywords: debugging, diagnosis, onsite

2 Triage: diagnosing production run failures at the user's site

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October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6
Publisher: ACM
Full text available: pdf(292.47 KB) Additional Information: full citation, abstract, references, index terms

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3 ACM SIGPLAN Notices: Volume 40 Issue 8

August 2005 issue Volume 40 Issue 8
Publisher: ACM
Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

4 An empirical study of static call graph extractors

Gail C. Murphy, David Notkin, William G. Griswold, Erica S. Lan
April 1998 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 7 Issue 2
Publisher: ACM

Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 80, Citation Count: 9

Informally, a call graph represents calls between entities in a given program. The call graphs that compilers compute to determine the applicability of an optimization must typically be conservative: a call may be omitted only if it can never occur in ...

Keywords: call graphs, design space, empirical study, software system analysis, static analysis

5 An empirical study of regression testing techniques incorporating context and lifetime factors and improved cost-benefit models

Hyunsook Do, Gregg Rothermel
November 2006 SIGSOFT '06/ FSE-14: Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering
Publisher: ACM

Full text available: pdf(236.38 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 200, Citation Count: 1

Regression testing is an important but expensive activity, and a great deal of research on regression testing methodologies has been performed. In recent years, much of this research has emphasized empirical studies, including evaluations of the effectiveness ...

Keywords: economic models, empirical studies, evaluation schemes, regression test selection, tegression testing, test case prioritization

6 TraceBack: first fault diagnosis by reconstruction of distributed control flow

Andrew Ayers, Richard Schooler, Chris Metcalf, Anant Agarwal, Junghwan Rhee, Emmett Witchel
June 2005 ACM SIGPLAN Notices, Volume 40 Issue 6
Publisher: ACM

Full text available: pdf(347.77 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 63, Citation Count: 2

Faults that occur in production systems are the most important faults to fix, but most production systems lack the debugging facilities present in development environments. TraceBack provides debugging information for production systems by providing ...

Keywords: fault diagnosis, instrumentation

7 TraceBack: first fault diagnosis by reconstruction of distributed control flow

Andrew Ayers, Richard Schooler, Chris Metcalf, Anant Agarwal, Junghwan Rhee, Emmett Witchel
June 2005 PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation
Publisher: ACM

Full text available: pdf(347.77 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 63, Citation Count: 2

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Keywords: fault diagnosis, instrumentation

8 A hardware-aware debugger for the OpenGL shading language
Magnus Strengert, Thomas Klein, Thomas Ertl
August 2007 GH '07: Proceedings of the 22nd ACM SIGGRAPH/EUROGRAPHICS symposium on Graphics hardware
Publisher: Eurographics Association
Full text available: Publisher Site Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 48, Citation Count: 0

The enormous flexibility of the modern GPU rendering pipeline as well as the availability of high-level shader languages have led to an increased demand for sophisticated programming tools. As the application domain for GPU-based algorithms extends beyond ...

9 DMTracker: finding bugs in large-scale parallel programs by detecting anomaly in data movements
Qi Gao, Feng Qin, Dhabaleswar K. Panda
November 2007 SC '07: Proceedings of the 2007 ACM/IEEE conference on Supercomputing
Publisher: ACM
Full text available: pdf(679.35 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 8, Citation Count: 0

While software reliability in large-scale systems becomes increasingly important, debugging in large-scale parallel systems remains a daunting task. This paper proposes an innovative technique to find *hard-to-detect* software bugs that can cause ...

Keywords: anomaly detection, bug detection, data movements, parallel programs

10 Trust but verify: monitoring remotely executing programs for progress and correctness
Shuo Yang, Ali R. Butt, Y. Charlie Hu, Samuel P. Midkiff
June 2005 PPoPP '05: Proceedings of the tenth ACM SIGPLAN symposium on Principles and practice of parallel programming
Publisher: ACM
Full text available: pdf(217.39 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Citation Count: 2

The increased popularity of grid systems and cycle sharing across organizations requires scalable systems that provide facilities to locate resources, to be fair in the use of those resources, and to monitor jobs executing on remote systems. This paper ...

Keywords: correctness verification, cycle-sharing, grid computing, progress monitoring, security, trustworthiness

11 A fast and accurate framework to analyze and optimize cache memory behavior
Xavier Vera, Nerina Bermudo, Josep Llosa, Antonio González
March 2004 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 26 Issue 2
Publisher: ACM
Full text available: pdf(270.06 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 75, Citation Count: 4

The gap between processor and main memory performance increases every year. In order to overcome this problem, cache memories are widely used. However, they are only effective when programs exhibit sufficient data locality. Compile-time program transformations ...

Keywords: Cache memories, optimization, sampling

12 Performance debugging for distributed systems of black boxes

Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha Muthitacharoen
December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5
Publisher: ACM

Full text available: pdf(408.85 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 294, Citation Count: 40

Many interesting large-scale systems are distributed systems of multiple communicating components. Such systems can be very hard to debug, especially when they exhibit poor performance. The problem becomes much harder when systems are composed of "black-box" ...

Keywords: black box systems, distributed systems, performance analysis, performance debugging

13 Performance debugging for distributed systems of black boxes

Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha Muthitacharoen
October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles
Publisher: ACM

Full text available: pdf(408.85 KB) Additional Information: full citation, abstract, references, cited by, index terms

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Keywords: black box systems, distributed systems, performance analysis, performance debugging

14 BorderPatrol: isolating events for black-box tracing

Eric Koskinen, John Jannotti
April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4
Publisher: ACM

Full text available: pdf(300.78 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 35, Citation Count: 0

Causal request traces are valuable to developers of large concurrent and distributed applications, yet difficult to obtain. Traces show how a request is processed, and can be analyzed by tools to detect performance or correctness errors and anomalous ...

Keywords: black box systems, causal paths, distributed systems, performance analysis, performance debugging

15 BorderPatrol: isolating events for black-box tracing

Eric Koskinen, John Jannotti
April 2008 Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008
Publisher: ACM
Full text available: pdf(300.78 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 35, Citation Count: 0

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Keywords: black box systems, causal paths, distributed systems, performance analysis, performance debugging

16 Software performance in the real world: personal lessons from the performance trauma team

Jayshankar Sankarasetty, Kevin Mobley, Libby Foster, Tad Hammer, Terri Calderone
February 2007 WOSP '07: Proceedings of the 6th international workshop on Software and performance
Publisher: ACM
Full text available: pdf(649.10 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 350, Citation Count: 0

In the nine years that we have been involved in software performance engineering (SPE) and performance testing engagements we have learned several things. Across numerous eCommerce applications and an enterprise CRM product suite, our knowledge base ...

Keywords: ITIL, performance testing, project management, six sigma, software performance engineering, software performance management

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